

Notice of Allowability

Application No.

09/872,628

Applicant(s)

ISENBURG, THOMAS A.

Examiner

Michael V Datskovskiy

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/04/2003.
2. ☒ The allowed claim(s) is/are 1,3-10,12-20,23-25,27-30,32-34 and 36-48.
3. ☒ The drawings filed on 01 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1 ☒ Notice of References Cited (PTO-892)
- 2 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3 ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. _____
- 4 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

- 5 ☐ Notice of Informal Patent Application (PTO-152)
- 6 ☐ Interview Summary (PTO-413), Paper No. _____
- 7 ☐ Examiner's Amendment/Comment
- 8 ☒ Examiner's Statement of Reasons for Allowance
- 9 ☐ Other

Primary Examiner
Michael Datskovskiy

Michael Datskovskiy 12/17/03

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The claims are allowable over the prior art of record for at least the reason that the prior art fails to teach or suggest an apparatus for attaching a thermal solution (heat sink) to contact a processor located on a circuit board, the apparatus comprising a mounting plate having an opening to allow the heat sink to contact the processor; a backing plate connected with said mounting plate by a plurality of aligning pins, wherein each pin has a first end slidable within a slot in the mounting plate and a second end securable to the circuit board and the mounting plate. The allowability, at least in part, resides in above described structure having elements that are not disclosed in the prior art searched. The applicant satisfactory amended the claims to overcome rejections under 35 USC §102 and §103 stated in the previous Rejections.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Although heat sinks mounted on the processors through the mounting plate connected to the stiffening backing plate are well known in the art (see previously cited prior art), examiner has nor found any prior art, wherein said mounting plate comprises a plurality of slots connected to the ends of aligning pins which are

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connected to the backing plate and to the circuit board by the other ends. For example, previously cited Kehley et al and Chan et al along with Frankeny et al each teaches an apparatus for attaching a thermal solution (heat sink) to contact a processor located on a circuit board, said apparatus comprising a mounting plate having an opening to allow the heat sink to contact the processor and a backing plate connected with said mounting plate by a plurality of aligning pins, they do not teach that each pin has a first end slidable within a slot in the mounting plate and a second end securable to the circuit board and the mounting plate. By Kehley et al or Chan et al or with Frankeny et al there is an additional part on the top of the heat sink, said part comprising a plurality of slots connected to the ends of aligning pins. Examiner points applicant's attention to the reference by Wang et al (WO 02/13265 A2), which is very close to applicant's invention, but has a later priority date.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V Datskovskiy whose telephone number is 306-4535. The examiner can normally be reached on 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3431.

Primary Examiner

Michael Datskovsky

A handwritten signature in black ink, appearing to read "Michael Datskovsky", written in a cursive style.

December 17, 2003.